

THE FUNCTIONS

SET A

$$f(a) = a^2 + a + 1$$

$$g(a) = a - 3$$

$$h(a) = 3a + 2$$

Cut out these **BOXES** and paste
the correct box in front of each
solution.



SOLUTIONS, Set A

???

$$= a - 6$$

???

$$= 3a^2 + 3a + 5$$

???

$$= 9a + 8$$

???

$$= a^2 + a - 2$$

SOLUTIONS, Set A

???

$$= 3a - 7$$

???

$$= 9a^2 + 15a + 7$$

???

$$= 3a - 1$$

???

$$= a^2 - 5a + 7$$

THE FUNCTIONS

SET B

$$f(a) = 3a^2 + 2a + 5$$

$$g(a) = 3a - 5$$

$$h(a) = 2a + 3$$

Cut out these **BOXES** and paste
the correct box in front of each
solution.



SOLUTIONS, Set B

???

$$= 9a - 20$$

???

$$= 6a^2 + 4a + 13$$

???

$$= 4a + 9$$

???

$$= 12a^2 + 40a + 38$$

SOLUTIONS, Set B

???

$$= 9a^2 + 6a + 10$$

???

$$= 27a^2 - 84a + 70$$

???

$$= 6a - 7$$

???

$$= 6a + 4$$

THE FUNCTIONS

SET C

$$f(a) = 3a^2 - 2a + 5$$

$$g(a) = \frac{1}{a-2}$$

$$h(a) = \sqrt{2a} + 3$$

Cut out these **BOXES** and paste
the correct box in front of each
solution.

$g \circ f$

$f \circ h$

$h \circ f$

$h \circ g$

$g \circ h$

$f \circ g$

SOLUTIONS, Set C

$$\boxed{???} = 6a + 16\sqrt{2a} + 26$$

$$\boxed{???} = \sqrt{6a^2 - 4a + 10} + 3$$

$$\boxed{???} = \frac{3}{(a-2)^2} - \frac{2}{a-2} + 5$$

SOLUTIONS, Set C

$$\boxed{???$$

$$= \sqrt{\frac{2}{a-2}} + 3$$

$$\boxed{???$$

$$= \frac{1}{\sqrt{2a+1}}$$

$$\boxed{???$$

$$= \frac{1}{3a^2-2a+3}$$